

## ITMC 2015 Project Excellence Awards

**Project Title:** Worksite Wellness Application Service

**Agency:** Department of Public Health and Human Services (DPHHS)

**Nominated by:**

Becki Kolenberg, General Manager

Montana Interactive

[becki@egovmt.com](mailto:becki@egovmt.com)

406-449-3468 X224

**Team Leader/ Members:**

Linda Krantz –Coordinated Chronic Disease Program Manager, DPHHS

Lynn Maki – Supervisor Application Development, DPPHS

Jackie Thiel – Security & Compliance Manger, DPPHS

Samantha Mongoven – Director of Marketing and Operations, Montana Interactive

**Summary Paragraph:**

The Worksite Wellness application, built as a self-funded service, provides an efficient way for businesses to apply for a Worksite Wellness Award. The Department of Public Health and Human Services (DPHHS) and the Montana Worksite Health Promotion Coalition designed the Worksite Wellness Awards to provide encouragement and a standard of excellence for those interested in working to promote healthy worksites in Montana.

**Project Description:**

By providing this application through the self-funded model, DPHHS and the Montana Worksite Health Promotion Coalition benefited from a cost avoidance of \$108,625 for the initial development. The cost avoidance will continue to grow as enhancements and ongoing maintenance is provided through the life of the service.

The DPHHS operational benefits include the reduction of time spent performing award reviews, elimination of maintaining paper forms with the biannual award updates, and the renewal process was eliminated as an award option due to the efficiencies of completing a full award each year.

Feedback from the award review committee and the award submitters alike were outstanding. 23 of the 24 award applicants noted the significance in the time savings the online award process. The award review committee time was also significantly reduced and the review window was reduced from 3 months to 4 weeks due to the ease of reviewing online. The Worksite Wellness application is hosted by two (2) load-balanced servers dedicated to mt.gov applications. This configuration offers enhanced performance by sharing the user load and

increased stability as either server is capable of hosting the application alone if the other should fail.

The application was written on the latest ASP.NET MVC platform and leverages the Twitter Bootstrap framework to fully support mobile devices. As the awards application is reviewed and modified semi-annually the actual web form is created dynamically from an XML configuration file that can be versioned and updated without requiring any code changes. The dynamic content is injected into a concrete layout that fulfills the state requirements imposed on the application and is tailored to the clients design requirements. The award application services three separate award levels, each with separate requirements, so the application employs a validation engine that is as flexible as the form itself. Finally some sections of the application only apply to certain award levels so the application supports the conditional display of any form field based on the value of any other field.

The application also provides the client administrative features to review, approve, and award the submitted applications. These features are built into the application and are presented as a reviewer panel that is superimposed on the application itself. Reviewers can view submitted applications, make comments, and update statuses as they evaluate the submissions. All comments and status changes are logged and displayed to the next reviewer in the form of a real-time log presented in a separate tab of the review panel.

Authentication for the application is provided by ePass Montana, the single sign-on solution for the State of Montana. The application employs a SAML2 client module (Service Provider, SP) to handle the SSO (single sign on) authentication and federates the credentials to a multi-tenant role based permissions management system also developed by MI. All submitters are required to be authenticated and are able to view and modify only data they have submitted. This allows the submitters to save an application and resume it at any time before the submission deadline, a requirement for a form of this size. Reviewers are also authenticated via ePass and assigned access through the same role provider. Their permissions are managed through a UI provided by that application.